

**BULLETIN OF ZOOLOGICAL NOMENCLATURE**

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**Notices**

(1) Applications and correspondence relating to applications to the Commission should be sent to the Executive Secretary at the address given on the inside of the front cover and on the Commission website. English is the official language of the *Bulletin*. Please take careful note of instructions to authors (present in a one or two page form in each volume and available online at <http://www.iczn.org/guidelines.html>) as incorrectly formatted applications will be returned to authors for revision. The Commission's Secretariat will answer general nomenclatural (as opposed to purely taxonomic) enquiries and assist with the formulation of applications and, as far as it can, check the main nomenclatural references in applications. Correspondence should be sent by e-mail to 'iczn@nhm.ac.uk' where possible.

(2) The Commission votes on applications eight months after they have been published, although this period is normally extended to enable comments to be submitted. Comments for publication relating to applications (either in support or against, or offering alternative solutions) should be submitted as soon as possible. Comments may be edited (see instructions for submission of comments at [http://www.iczn.org/Instructions\\_for\\_comments.html](http://www.iczn.org/Instructions_for_comments.html)).

(3) Requests for help and advice on the Code can be made direct to the Commission and other interested parties via the Internet. Membership of the Commission's Discussion List is free of charge. You can subscribe and find out more about the list at <http://list.afriherp.org/mailman/listinfo/iczn-list>.

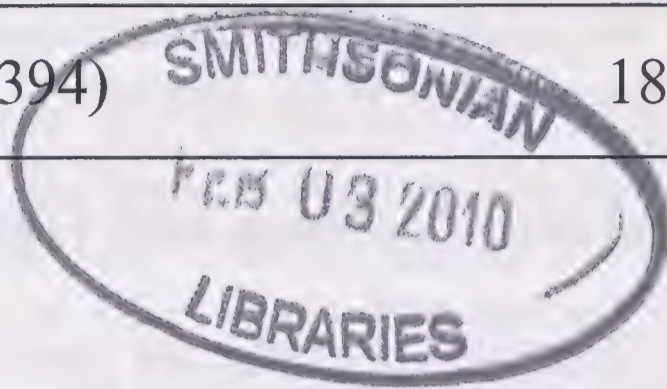
(4) The Commission also welcomes the submission of general-interest articles on nomenclatural themes or nomenclatural notes on particular issues. These may deal with taxonomy, but should be mainly nomenclatural in content. Articles and notes should be sent to the Executive Secretary.

**New applications to the Commission**

The following new applications have been received since the last issue of the *Bulletin* (volume 66, part 3, 30 September 2009) went to press. Under Article 82 of the Code, the existing usage of names in the applications is to be maintained until the Commission's rulings on the applications (the Opinions) have been published.

**CASE 3504:** *Onthophagus rugulosus* Harold, 1886 (Insecta, Coleoptera, SCARABAEIDAE): proposed conservation of the specific name. F. Krell.

**CASE 3505:** *Melitta annularis* Kirby, 1802 (currently *Hylaeus annularis*; Insecta, Hymenoptera): proposed suppression of the specific name. P. Westrich & M. Edwards.



**Case 3506:** *Allosaurus* Marsh, 1877 (Dinosauria, Theropoda): proposed conservation of usage by designation of a neotype for its type species *Allosaurus fragilis* Marsh, 1877. G.S. Paul & K. Carpenter.

**Case 3507:** *Phylloporina* Ulrich in Foerste, 1887 (Bryozoa, Fenestrata, Phylloporinina): proposed designation of *Retepora trentonensis* Nicholson, 1875 as the type species. F.K. McKinney & P.N. Wyse Jackson.

## Unifying nomenclature: ZooBank and Global Names Usage Bank

Taxon names are central to realising the vision of globally interconnected data, including museum specimens, literature, images, video, ecological datasets and other databases. Taxon names are the 'glue' that binds most biodiversity information. Unfortunately, much of this information is labelled by taxon names that are little more than text strings, fraught with problems of abbreviations, alternate orthographies, homonyms, novel combinations of binomials and trinomials, and other ambiguities that make it difficult to interpret the intended meaning of the name. The challenge of interconnecting biodiversity data is to establish links between these text-string taxon names and a system of interlinked and unambiguously defined nomenclatural acts. To address this challenge, several organisations have joined forces to develop the *Global Names Architecture* (GNA). With guidance from the GNA Advisory Panel and initial support from GBIF, EoL and NBII, the GNA will include components designed to bridge the gap between text-string taxon names and well-documented nomenclatural acts. One component, the *Global Names Usage Bank* (GNUB), is intended as a public-domain repository for 'taxon-name usage instances'; an index of the millions of times taxon names are treated in the form of citable documentation (primarily published literature). A subset of these usage instances represents Code-governed nomenclatural acts or taxon concept circumscriptions, and many more are labels to other biological data (e.g. specimens, ecological data and distribution information). In a sense, taxon-name usages (TNU) represent the 'least-common denominator' among all nomenclatural Codes, as well as (ultimately) all of biodiversity information.

Development of GNUB has important implications for the implementation of ZooBank. ZooBank was originally conceived as a 'database' of nomenclatural acts, associated publications and other relevant information. Our revised vision positions it as a service that operates on the GNUB (with a secure copy maintained by the ICZN). ZooBank would identify specific records within GNUB that constitute ICZN-governed nomenclatural acts (and associated published works), provide a mechanism for validating the accuracy of the contained information and 'certify' each in terms of Code compliance. As the Official Registry of the ICZN, this ZooBank service will be vital to (1) representing scientific names correctly and (2) cross-linking and transforming incorrectly rendered scientific names into their Code-correct forms. This would be a major step towards a technological unification of biological nomenclature.

R. Pyle (Commissioner) & E. Michel (Executive Secretary)

## INTERNATIONAL TRUST FOR ZOOLOGICAL NOMENCLATURE

### Financial Report for the year 2008

The main work of the Commission during the year was on applications from zoologists in 16 countries to resolve problems of zoological nomenclature. These were published in the *Bulletin of Zoological Nomenclature*, together with Opinions (rulings) made by the Commission on other cases. Further applications were under consideration. Advice was given by the Commission's Secretariat in response to a large number of enquiries on matters of nomenclature from zoologists worldwide.

Total income received by the Trust consisted of £31,118 for all publications produced by the Commission, £29,692 from appeal and general donations, £9,054 in bank interest and investment income, and £17,986 capital gain on the sale of investments, bringing the total income for the year to £87,850.

Expenditure in 2008 was £100,644 on salaries and fees of the Secretariat of the Commission, £4,102 on appeal expenditure and ZooBank travel, £9,955 for printing the *Bulletin of Zoological Nomenclature* and for the distribution of all publications, and £7,530 for office expenses and depreciation of office equipment, bringing the total expenditure to £122,231.

The Secretariat of the Commission was again housed in the Natural History Museum, London, whom we thank for their continuing support. The Trust wishes to express its thanks to all the donors listed below who have contributed to the continuation of its work during the year for the international zoological and palaeontological community.

Donations were received from:

Canadian Society of Zoologists  
Coleopterists' Society  
P. & L. Cooke Endowment  
The Earl of Cranbrook  
Ichthyological Society of Japan  
Internationaler Entomologischer Verein  
Kong. Danske Videnskabernes Selskab Copenhagen  
Pan-European Species-directories Infrastructure (PESI)  
Wellcome Trust

P.L. Forey, Secretary and Managing Director

**INTERNATIONAL TRUST FOR ZOOLOGICAL NOMENCLATURE  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED  
31 DECEMBER 2008**

## Income

## SALE OF PUBLICATIONS

Bulletin of Zoological Nomenclature	£27,928
International Code of Zoological Nomenclature	2,811
Official Lists and Indexes	314
Centenary History	65

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 31,118

## GRANTS AND DONATIONS

29,692

## INTEREST RECEIVED

507

## INVESTMENT INCOME

8,547

## CAPITAL GAIN ON SALE OF INVESTMENTS

17,986

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 87,850

## Expenditure

## SALARIES, NATIONAL INSURANCE AND FEES

100,644

## OFFICE EXPENSES

1,261

PRINTING OF BULLETIN AND DISTRIBUTION OF  
PUBLICATIONS

9,955

## APPEAL EXPENDITURE INCLUDING TRAVEL

4,102

## DEPRECIATION OF OFFICE EQUIPMENT

6,269

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 122,231

## DEFICIT FOR THE YEAR CARRIED TO BALANCE SHEET

£34,381

## Contributions to the Discussion on Electronic Publication III

### Introduction

This is the third instalment of comments on the ICZN proposed amendment on electronic-only publication, which would allow publication of nomenclatural acts on exclusively electronic media to be valid and available. The 30th General Assembly of the IUBS, in Capetown on 11 October 2009, approved the proposals, as outlined in the following resolution:

#### **Resolution: Proposed amendment of the International Code of Zoological Nomenclature**

This General Assembly of the IUBS approves the principles underlying the proposed amendment of the International Code of Zoological Nomenclature to expand and refine methods of publication, as published in *Zootaxa* (1908: 57–67) on 9 October 2008, recognising that the final wording of the amendment will require formal approval by the International Commission on Zoological Nomenclature after consideration of the input received from the zoological community over the past year. If approved by the Commission, the final wording of the amendment will be referred to the Officers of the IUBS for their endorsement, and for subsequent implementation.

The proposed amendment is available in the BZN 65: 265–275, several other sources, and online at [http://www.iczn.org/electronic\\_publication.html](http://www.iczn.org/electronic_publication.html). We have sought input from all stakeholders in this process, including taxonomists, publishers, archivists, database experts and the wide range of users of nomenclatural information.

The date for the Commission's vote has not yet been set, thus we are not certain whether there will be a further opportunity for input through the BZN, however we encourage continued debate through listservers (e.g. ICZN listserver (<http://list.afriherp.org/mailman/listinfo/iczn-list>) and Taxacom (<http://mailman.nhm.ku.edu/mailman/listinfo/taxacom>)) and the various journals that have published the proposed amendment.

Ellinor Michel  
Svetlana Nikolaeva  
Natalie Dale-Skey  
Steve Tracey